

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 12/08/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/525,319	02/23/2005	Yoshitaka Asano	1217-050589	5350	
75	90 12/08/2006	12/08/2006		EXAMINER	
Kent E Baldauf Sr			HA, NGUYEN T		
436 Seventh Av			1071017	DARED MIMOER	
700 Koppers Building			ART UNIT	PAPER NUMBER	
Pittsburgh, PA 15219-1818			2831		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/525,319	ASANO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nguyen T. Ha	2831				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS ute, cause the application to become ABAND	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>02</u>	October 2006	•				
·—						
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		,				
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application	nn					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-4 and 10-12</u> is/are allowed.						
· '	· · · · · · · · · · · · · · · · · · ·					
	Claim(s) 5-9, and 13-18 is/are rejected.					
, , ,	_					
o) Claim(s) are subject to restriction and	voi election requirement.	,				
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached Of	fice Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12)⊠ Acknowledgment is made of a claim for forei a)⊠ All b)☐ Some * c)☐ None of:	gn priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
 1. ☐ Certified copies of the priority docume 	1. Certified copies of the priority documents have been received.					
Certified copies of the priority docume	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the present the present	iority documents have been rec	eived in this National Stage				
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a li	st of the certified copies not reco	eived.				
•	·					
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	iai i atent Application (F10-192)				

Application/Control Number: 10/525,319

Art Unit: 2831

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claims 5-9, and 13-18 have been considered but are moot in view of the new ground(s) of rejection.
- 2. With respect to claims 1-4, and 10-12, the applicants argument that Morimoto et al. is failed to disclose a functional sheet having a reinforcing material comprising a reinforcing sheet, wherein the reinforcing sheet comprises a woven or non-woven fabric cloth, having a basis weight of from 10 to 400 g/cm², the fiber diameter of a fiber constituting the reinforcing sheet is from 10 to 150 µm. The examiner finds this argument persuasive. Therefore, the examiner made decision to allow this limitation over the prior art of record.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 4. Claims 5-9, and 13-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Morimoto et al. (US 4,862,328).

Regarding claims 5, 9 and 16-18, Morimoto et al. disclose an electrode for electric double layer capacitor (figure 1) comprising a sheet-like electrode material comprising a carbon fine powder and a fluorine containing polymer resin (column 9,

Application/Control Number: 10/525,319

Art Unit: 2831

lines 5-23) and, laminated thereon (figure 1), a reinforcing sheet (1), which are bonded

(figure 1).

Regarding claim 6, Morimoto et al. disclose the reinforcing sheet comprises any one of a cloth, a mesh, a non-woven fabric cloth and an expand sheet, and has a thickness of from 0.01 to 1.0 mm (column 10, lines 15-17, which is within the claimed range).

Regarding claims 7 & 13, Morimoto et al. disclose the carbon fine powder comprises activate carbon and/or conductive carbon, and the pluoropolymer resin is polytetrafluoroethylene (column 10, lines 5-7).

Regarding claims 8, 14 and 15, Morimoto et al. disclose the fluorine resin is contained in an amount of not more than 15 % by weight in the electrode material (column 9, lines 16-21).

Allowable Subject Matter

5. Claims 1-4, and 10-12 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1-4, and 10-12, the prior art alone or in combination does not teach the limitation of a functional sheet having a reinforcing material comprising a reinforcing sheet, wherein the reinforcing sheet comprises a woven or non-woven fabric cloth, having a basis weight of from 10 to 400 g/cm², the fiber diameter of a fiber constituting the reinforcing sheet is from 10 to 150 µm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Page 4

Application/Control Number: 10/525,319

Art Unit: 2831

. 2831

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen T. Ha whose telephone number is 571-272-1974. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext. 31. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NGUYEN T. HA PRIMARY EXAMINER

December 6, 2006